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(54) Title: RECOMBINANT CLOSTRIDIUM BOTULINUM NEUROTOXINS

(57) Abstract: The invention provides a nucleic acid sequence comprising a sequence of contiguous nucleotides, wherein said sequence of contiguous nucleotides has at least 90% sequence identity to the nucleic acid sequence of SEQ ID NO: 1,and wherein said sequence of contiguous nucleotides encodes a single-chain BoNT/E1 protein. The present invention also provides methodsfor producing soluble single-chain BoNT/E protein in an E. colihost cell, together with methodsfor producing soluble di-chain 10 BoNT/E1 protein.